

CONTENTS

Preface	11
Introduction	13

FIRST PART

On the nature of mathematics in Kant. A critical comparison with traditional interpretation

I.	General logic and transcendental logic	31
	1. Preliminary questions. First general reflections on the analytic and the synthetic (p. 31) – 2. Why a transcendental logic? (p. 39) – 2.1. Criticism of the non-contradiction principle (p. 42) – 3. Some clarifications of the distinction between the analytic and the synthetic (p. 45)	
II.	Intuition, concept and synthetic a priori: Kant's mathematics	57
	1. Are there «given» synthetic a priori cognitions? (p. 57) – 2. 'Judgments' of mathematics and «fundamental propositions of understanding» (p. 67) – 3. Principles of understanding, mathematical constitution of experience and synthetic a priori. On «mathematical» and «dynamical» (p. 73) – 4. On the concept of 'construction'. The synthetic a priori: logical or epistemological issue? (p. 80)	
III.	Are space and time forms of intuition or concepts?	95
	Logic, geometry and epistemological reasons	
	1. The issue of the infinite: logical concerns and geometrical reasons in contemporary criticism (p. 96) – 2. The pure intuition of space: the intelligibility of epistemological reasons (p. 105) – 2.1. Intension and extension of concept. Speaking of the «metaphysical exposition of space» (p. 106) – 2.2. «Actu infinitum non datur a parte rei, sed tantum a parte cogitantis» (p. 110) – 3. Impossibility de jure of an «Aesthetic» without an «Analytic». The unity de facto of concept and intuition (p. 123) – 4. Conclusions (p. 129)	

SECOND PART

*A heterodox way.
The analyticity of mathematical sciences
and the meaning of the synthetic a priori*

IV.	Substantial analyticity of 'judgments' of mathematical sciences	139
	1. Mathematical sciences and their relations with the pure forms of space and time (p. 139) – 1.1. Transcendental schematism and schema of mathematical concepts. The different levels of considering mathematical sciences (p. 145) – 2. Mathematical sciences and synthetic activity of the understanding (p. 165) – 3. Kant through Fries: the particular case of arithmetic (p. 177)	
V.	The category of reality: «Anticipations of perception» and intrinsic mathematization of the real	203
	1. Kant's concept of experience, the role of mathematics and the nature of space and time. The development of epistemological considerations (p. 205) – 2. Metaphysics and transcendental a priori. Reflections and interpretative suggestions (p. 209) – 3. Is a «general metaphysics» without mathematics possible? (p. 217) – 4. The sense of the infinitude of concepts of space and time. The epistemological validity of the «transcendental dialectic» (p. 225) – 5. Conclusions (p. 235)	
	Bibliography	239
	Index of names	255